

WDS-001

AFTER FINAL: EXPEDITED ACTION

07680001aa

Amendment dated 03/07/2006

Reply to office action mailed 09/08/2005

The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

- 1 1. (currently amended) A system for viewer managed point to point data
2 streaming over a network, comprising:
3 a Sender node for generating streaming data from a target site, said
4 Sender being a client having an address on a network;
5 a Viewer node for monitoring said target site by controlling the
6 generation of streaming data by the Sender node and viewing said streaming
7 data, said Viewer being a client on said network; and
8 a Mediator node for remotely ~~establishing direct transmission of said~~
9 ~~streaming data from said Sender to said Viewer, said Mediator node~~
10 ~~establishing direction transmission by~~ authenticating said Viewer and Sender,
11 locating for said Viewer said Sender address, ~~negotiating a direct connection~~
12 ~~between said Sender and said Viewer, transmitting session keys to the Viewer~~
13 and the Sender, and recording session information in a repository, the session
14 keys enabling the Sender and the Viewer to establish a point-to-point
15 connection over the network,
16 ~~wherein said direct transmission is initiated by said Viewer at a web~~
17 ~~site associated with said Mediator node, and is paused and restarted~~
18 ~~asynchronously by said Viewer without intervention by said Mediator node,~~
19 ~~and wherein said Sender provides its address to said Mediator node when said~~
20 ~~direct transmission is started or restarted by said Viewer~~
21 wherein said connection is for the streaming of said streaming data by
22 the Sender to the Viewer under said Viewer control, and

23 wherein said Viewer control includes asynchronous initiating, stopping
24 and restarting said streaming without intervention by the Mediator node after
25 said transmission of the session keys.

1 2. (original) A system as in claim 1, wherein said network is a TCP/IP
2 network.

1 3. (original) A system as in claim 1, wherein said streaming data is multi-
2 media.

1 4. (original) A system as in claim 1, wherein said Sender's address is
2 dynamic.

1 5. (currently amended) A system as in claim 1, wherein said session
2 information in said repository at said Mediator node includes IP addresses for
3 said Sender and said Viewer; and said session keys for access control, and
4 ~~session start and end times,~~ and wherein said Mediator node provides a static
5 Internet location for accessing the system; ~~and wherein said Viewer node~~
6 ~~control over said direct transmission from said Sender node includes~~
7 ~~granularity and frequency of said streaming data.~~

1 6. (original) A system as in claim 1, wherein said Sender further comprises
2 means for accepting requests from authorized Viewers and means for
3 streaming said data to said authorized Viewers.

1 7. (previously presented) A system as in claim 6, further comprising a
2 plurality of Mediator nodes, each Mediator node serving a plurality of Senders
3 and a plurality of Viewers.

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1 8. (previously presented) A system as in claim 7, wherein a first Sender
2 further comprises a MediaRelay for retransmitting to a Viewer or a second
3 Sender a data stream generated by said first Sender or received from a third
4 Sender.

1 9. (original) A system as in claim 7, wherein each said Mediator node
2 provides security.

1 10. (previously presented) A system as in claim 9, wherein said security is
2 implemented by encrypted communication tokens, each said token containing
3 an address of a designated Sender and being readable by a designated Viewer,
4 said designations being mediated at each said Mediator node.

1 11. (original) A system as in claim 1, wherein said streaming data is
2 generated and transmitted in real-time.

1 12. (original) A system as in claim 1, wherein said Sender is implemented by
2 MediaSender software and said software is updated automatically from said
3 Mediator node.

1 13. (previously presented) A system as in claim 12, wherein said software is
2 constructed using platform independent technology.

1 14. (currently amended) A method for viewer managed point to point data
2 streaming over a network between a Sender and a Viewer, comprising the
3 steps of:

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4 registering Sender information with a Mediator node, said Sender
5 information including at least a location of said Sender and a list of Viewers
6 having access rights;
7 authenticating said Sender by said Mediator;
8 requesting access to said Sender by a Viewer;
9 logging said Viewer's request with said Mediator node, said logging
10 validating said Viewer against said list of Viewers;
11 transmitting said location information to said validated Viewer and
12 notifying said Sender of said validated Viewer;
13 downloading by said Viewer of a videostreamer from said Sender;
14 establishing by said Viewer and said Sender a point-to-point
15 connection, said connection being for streaming of streaming data by said
16 Sender to said Viewer; and
17 controlling by said Viewer of said Sender streaming of said streaming
18 data, using said videostreamer and without intervention by said Mediator
19 node, said Viewer control including asynchronous initiating, stopping and
20 restarting said streaming data ~~pausing and restarting direct transmission from~~
21 ~~said Sender to said Viewer.~~

1 15. (original) The method of claim 14, wherein said network is a TCP/IP
2 network.

1 16. (original) The method of claim 14, wherein said streaming data is multi-
2 media.

1 17. (original) The method of claim 14, wherein said Sender's address is
2 dynamic.

1 18. (currently amended) The method of claim 14, wherein a repository in said
2 Mediator node monitors and records session information, said session
3 information including IP addresses for said Sender and said Viewer, and
4 session keys for access control, ~~and session start and end times~~, and wherein
5 said Mediator node provides a static Internet location for accessing the system
6 at a web site associated with said Mediator node.

1 19. (original) The method of claim 14, further comprising the steps of:
2 registering a second Sender's information by said Mediator node, said
3 information including at least a location of said second Sender, said second
4 Sender having a MediaRelay for retransmitting said videostreamer to said
5 Viewer;
6 after said logging of said Viewer's request, transmitting to said
7 validated viewer said second Sender's location information, said
8 videostreamer then being transmitted by said Sender to said second Sender
9 and downloaded to said Viewer by said MediaRelay.

1 20. (currently amended) A system for viewer managed point to point data
2 streaming over a network between a Sender and a Viewer, comprising:
3 means for registering Sender information with a Mediator node, said
4 Mediator node containing a repository which monitors and records session
5 information, said Sender information including at least a location of said
6 Sender and a list of Viewers having access rights;
7 means for authenticating said Sender by said Mediator;
8 means for requesting access to said Sender by a Viewer;
9 means for logging said Viewer's request with said Mediator node, said
10 logging validating said Viewer against said list of Viewers;

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11 means for transmitting said location information to said validated
12 Viewer and notifying said Sender of said validated Viewer;
13 means for downloading by said Viewer of a videostreamer from said
14 Sender;
15 means for establishing by said Viewer and said Sender of a point-to-
16 point connection, said connection being for streaming of streaming data by
17 said Sender to said Viewer; and
18 means for controlling by said Viewer of said Sender streaming of said
19 streaming data, using said videostreamer and without intervention by said
20 Mediator node, said Viewer control including asynchronous initiating,
21 stopping and restarting said streaming data ~~pausing and restarting direct~~
22 ~~transmission from said Sender to said Viewer~~, wherein said Sender provides
23 its address to said Mediator node when said direct transmission is started or
24 restarted by said Viewer.

1 21. (currently amended) A system for viewer managed point to point data
2 streaming over a network, comprising:
3 means for transmitting a data stream from a Sender to one or more
4 Viewers, optionally via one or more Relays;
5 means for registering information of said Sender with a Mediator node,
6 said information including said Sender's location on said network and said
7 Sender's availability for said transmission, said Mediator node containing a
8 repository which monitors and records session information;
9 means for said one or more Viewers to request access to said Sender
10 from a Mediator node;
11 means for said Mediator node to provide said location information to
12 said one or more Viewers if said Sender is available; and

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13 means for establishing by each of said one or more Viewers and said
14 Sender of a point-to-point connection, each said respective connection being
15 for said transmission of said data stream by said Sender to a respective
16 Viewer;

17 wherein each said transmission to a respective one of said one or more
18 Viewers, ~~respectively~~, is initiated and controlled by said respective one of said
19 one or more ~~respective~~ Viewers, said Viewer initiation being at a web site
20 associated with said Mediator node, said Viewer control including
21 asynchronous initiating, stopping and restarting by said Viewer of said
22 respective transmission and is stopped and restarted asynchronously by said
23 ~~one or more respective Viewers~~ without intervention by said Mediator node,
24 and wherein said Sender provides its address to said Mediator node when said
25 direct transmission is started or restarted by said Viewer.

1 22. (currently amended) A system as in claim 21, wherein said providing
2 means use encrypted tokens for security and wherein said Viewer control also
3 includes control of a video quality and a frame rate, and an ability to change
4 through multiple cameras.